

## C L A I M S

1. A downhill ski characterised by comprising a thrust support acting elastically downwards on a point (6) in that portion between the front jaw (P) of the binding and the section (4) where the tip curvature commences.
- 5 2. A ski as claimed in claim 1, characterised in that the thrust support acts on a point substantially at the centre of that portion between the front jaw (P) of the binding and the section (4) where the tip curvature commences.
3. A ski as claimed in claim 1, characterised in that the thrust support acts on a point situated in the rear half of that portion between the front jaw (P) of the binding and the section (4) where the tip curvature commences.
- 10 4. A ski as claimed in claim 1, characterised in that the thrust support consists of a superstructure, comprising a base member, connected to the central region of the ski, and a front prolongation (5, 11), the end of which exerts said downward thrust action.
- 15 5. A ski as claimed in claim 4, characterised in that the base member is split into two half-members (8,9), namely a rear one (9) for merely raising the heel of the binding, and a front one (8) below the front part of the boot.
6. A ski as claimed in claims 4 or 5, characterised in that said prolongation (5) and at least the front portion (8) of said base member form a monolithic entity.
- 20 7. A ski as claimed in claims 5 and 6, characterised in that said front half-member (8) is hinge-connected to said central region (1) at a point (17) to the rear of the front jaw (P).
8. A ski as claimed in claim 4, characterised in that the end of said front prolongation (5, 11) is connected to the ski by a connection which at the same

time acts as a bilateral support and a hinge of transverse-horizontal axis, able to inhibit mutual movements in a vertical direction, but such as to enable mutual sliding in a longitudinal direction and mutual rotation about said transverse-horizontal axis.

- 5 9. A ski as claimed in claim 8, characterised in that said connection (6) consists of a hinge slotted in a horizontal plane.
10. A ski as claimed in claim 4 or 5, characterised in that said prolongation (11) is independent, is connected at its rear to the front portion of said base member by a hinge (12) and is provided with a retro-prolongation (13) which extends from 10 said hinge and acts as the element reacting on the base member by means of a counteracting element (14).
11. A ski as claimed in claim 4 or 5, characterised in that such prolongation (11) is independent, is connected at its rear to the front portion of said base member by a hinge (12) and is provided with a retro-prolongation (13) which extends from said 15 hinge and acts as the element reacting on the ski by means of a counteracting element (16).
12. A ski as claimed in claim 4 or 5, characterised in that such prolongation (11) is independent, is connected at its rear to the front portion of said base member by a hinge (12) and is provided with a retro-prolongation (13) which extends from said 20 hinge and acts as a reacting element to the base member by means of a first counteracting element (14) and on the ski by means of a second counteracting element (16).
13. A ski as claimed in one or more of claims from 10 to 12 characterised in that at least one counteracting element (14,16) is of adjustable feed.

14. A ski as claimed in claim 13, characterised in that to at least one reaction element a substantially elastic insert (15) is associated.

15. A ski as claimed in claim 14 characterised in that the insert (15) is formed of high-resistance rubber.